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Patent  
Attorney Docket No. 040072-243

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Wensheng Huang et al.

Application No.: 10/645,560

Filing Date: August 22, 2003

Title: DATA COMPRESSION WITH INCREMENTAL REDUNDANCY

Group Art Unit: 2631

Examiner: Unassigned

Confirmation No.: 9173

**FIRST  
INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a FIRST Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

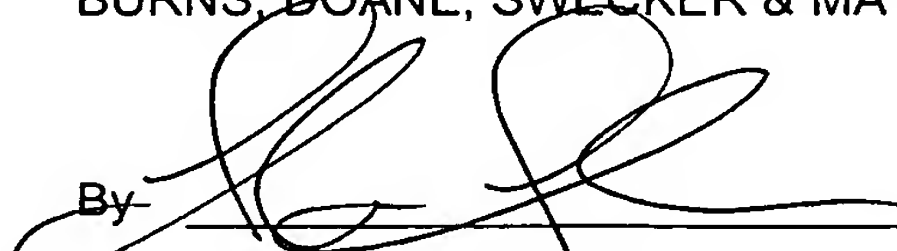
- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- ☐ Charge \_\_\_\_\_ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

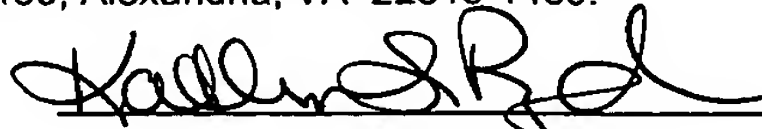
P.O. Box 1404  
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By   
Theodosios Thomas  
Registration No. 45,159

Date: August 6, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit: August 6, 2004



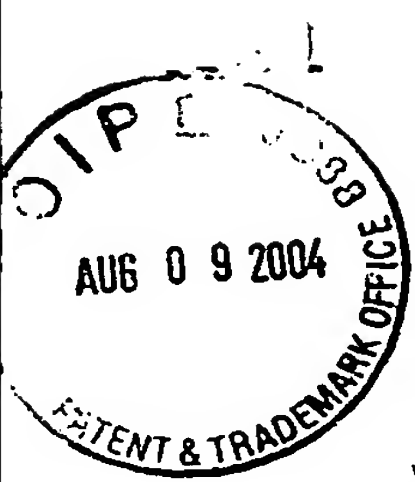
Kathryn L. Boyd  
Typed Name:

**BURNS DOANE**

BURNS DOANE SWECKER & MATHIS LLP  
INTELLECTUAL PROPERTY LAW

**FIRST  
INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

(4/04)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|   |   |                        |
|---|---|------------------------|
| In re Patent Application of                       | ) |                        |
| Wensheng Huang et al.                             | ) | Group Art Unit: 2631   |
| Application No.: 10/645,560                       | ) | Examiner: Unassigned   |
| Filed: August 22, 2003                            | ) | Confirmation No.: 9173 |
| For: Data Compression with Incremental Redundancy | ) |                        |

**FIRST INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98. A copy of each of the non-U.S. patent and publication documents cited are enclosed.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement.

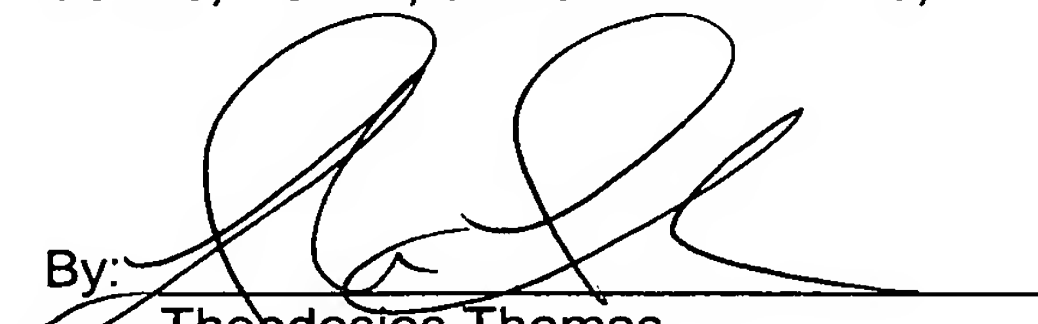
Some of these documents were cited in a European Search Report for a corresponding application. A copy of the Search Report is also enclosed.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

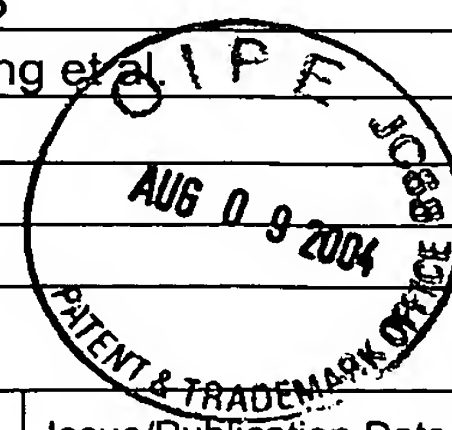
BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date August 6, 2004

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(919) 941-9240

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| Substitute for form 1449A/PTO & 1449B/PTO   |   |    | <b>Complete if Known</b> |                        |            |
| <b>FIRST<br/>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    | Application Number       | 10/645,560             |            |
|   |   |    | Filing Date              | August 22, 2003        |            |
|   |   |    | First Named Inventor     | Wensheng Huang et al.  |            |
|   |   |    | Examiner Name            | Unassigned             |            |
| Sheet   | 1 | of | 1                        | Attorney Docket Number | 040072-243 |



| U.S. PATENT DOCUMENTS |                 |                      |   |                                     |
|-----------------------|-----------------|----------------------|---|-------------------------------------|
| Examiner Initials     | Document Number | Kind Code (if known) | Name of Patentee or Applicant of Cited Document | Issue/Publication Date (MM-DD-YYYY) |
|                       | 2002/0107987    | A1                   | Malm  | 08-08-2002                          |
|                       | 2002/0159545    | A1                   | Ramesh et al.                                   | 10-31-2002                          |
|                       | 6,529,561       | B2                   | Sipola  | 03-04-2003                          |
|                       |                 |                      |   |                                     |
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| FOREIGN PATENT DOCUMENTS |                 |                      |         |                                  |             |                     |                    |               |      |          |
|--------------------------|-----------------|----------------------|---------|----------------------------------|-------------|---------------------|--------------------|---------------|------|----------|
| Examiner Initials        | Document Number | Kind Code (if known) | Country | Date of Publication (MM-DD-YYYY) | STATUS      |                     |                    |               |      |          |
|                          |                 |                      |         |                                  | Translation | Partial Translation | Eng. Lang. Summary | Search Report | IPER | Abstract |
|                          |                 |                      |         |                                  |             |                     |                    |               |      |          |
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| NON-PATENT LITERATURE DOCUMENTS |   |
|---------------------------------|---|
| Examiner Initials               | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|                                 | Hagenauer, Joachim, et al., "A Viterbi Algorithm with Soft-Decision Outputs and its Applications", Dallas Globecom '89, IEE Global Telecommunications Conference & Exhibition, Dallas, Texas, November 27-30, 1989.   |
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|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.